

IN THE SPECIFICATION:

Page 3, replace the paragraph at lines 15-16 with the following paragraph (a space has been added between “1” and “is”):

Figure 1 is a diagram illustrating a conventional network according to the InfiniBand™ Architecture Specification.

Page 9, replace the paragraph beginning at line 16 with the following paragraph:

According to the disclosed embodiment, support is provided in the InfiniBand™ network to recognize the application priorities identified in an application identifier of a transport header and map the application identifier to a service level in the InfiniBand™ network. With reference to Figures 2-4 and 3, router 20 includes an HCA 90 having an application identifier to service layer (APID_SL) mapping table 92. Application software resides on router 20 for generating the APID_SL mapping table 92. Thus, the APID_SL mapping table 92 bridges the IP domain 93 with the InfiniBand™ domain 95. The router 20 includes a network layer (e.g., IP) interface 97 for connection with the IP domain 93. An IP to InfiniBand™ controller 99 is provided in the router 20. The controller 99 is configured for parsing the transport header 86 and for determining the service level for the application identifier 88. The controller 99 outputs an IP data packet on InfiniBand™ network within an InfiniBand™ packet according to the determined service level. In particular, the HCA 90 is configured for generating the InfiniBand™ packet 102 based on a request from the controller 99. With reference to Figure 4, the HCA 90 includes an SL-VL mapping table 101 configured for assigning the InfiniBand™ packet to a prescribed virtual lane based on the determined service level specified in the request. As shown in Figure 3, an InfiniBand™ packet 102 is established which includes a virtual lane (VL) field 96 containing packet application level priority, with VL15 being highest priority and VL0 being lowest priority.